Flight-Testing Newton's Laws			
2005 Science			
Course of Study			
Alabama Science			
Grades 9-12 (Physical Science Core)			
Activity/Lesson	**State**	**Standards**	
Session-10 (1-5)	AL	SCI.9-12.PS.7.2	Solving problems for velocity, acceleration, force, work, and power
Session-10 (1-5)	AL	SCI.9-12.PS.7.3	Describing action and reaction forces, inertia, acceleration, momentum, and friction in terms of Newton’s three laws of motion
Session-10 (1-5)	AL	SCI.9-12.PS.7.4	Determining the resultant of collinear forces acting on a body
Session-10 (1-5)	AL	SCI.9-12.PS.12	Identify metric units for mass, distance, time, temperature, velocity, acceleration, density, force, energy, and power.
Session-1 (1-17)	AL	SCI.9-12.PS.6	Identify characteristics of gravitational, electromagnetic, and nuclear forces.
Session-1 (1-17)	AL	SCI.9-12.PS.7.1	Interpreting graphic representations of velocity versus time and distance versus time
Session-7 (1-5)	AL	SCI.9-12.PS.7.2	Solving problems for velocity, acceleration, force, work, and power
Session-9 (1-7)	AL	SCI.9-12.PS.12	Identify metric units for mass, distance, time, temperature, velocity, acceleration, density, force, energy, and power.
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Grades 9-12 (Physics Core)			
Activity/Lesson	**State**	**Standards**	
Session-10 (1-5)	AL	SCI.9-12.PH.1.2	Describing forces that act on an object
Session-10 (1-5)	AL	SCI.9-12.PH.3	Explain planetary motion and navigation in space in terms of Kepler’s and Newton’s laws.
Session-2 (1-10)	AL	SCI.9-12.PH.1.2	Describing forces that act on an object